

AMENDMENTS TO THE CLAIMS

The following is a complete, marked up listing of revised claims with a status identifier in parentheses, underlined text indicating insertions, and strikethrough and/or double-bracketed text indicating deletions.

Listing of the Claims

1. (Currently Amended) A computer readable medium having a data structure for managing reproduction of multiple playback path video data, comprising:

a playlist directory area for storing a playlist directory including a plurality of playlist files, each playlist file for identifying a portion of the multiple playback path video data and ~~for identifying~~ at least a portion of the playlist files associated with different playback paths and the playlist file for storing navigation information at least providing information on one playback path, the playlist file including information indicating order of reproduction;

a data area for storing at least one clip file of the multiple playback path video data; and

a management area for storing management information for managing reproduction of the multiple playback path video data, the management information including an information file associated with each clip file, each information file providing a map for the associated clip file, the map containing presentation time information corresponding to address information for the associated clip file, ~~wherein while a playback path of a multiple playback path is being reproduced, another playback path of the multiple playback path is not reproduced.~~

2. (Previously Presented) The computer readable medium of claim 1, wherein a group of playlist files is associated with each playback path.

3-5. (Canceled)

6. (Previously Presented) The computer readable medium of claim 1, wherein the navigation information at least provides information for linking one playlist file to another playlist file in the same playback path.

7. (Previously Presented) The computer readable medium of claim 6, wherein the different playback paths are related to different stories.

8. (Canceled)

9. (Previously Presented) The computer readable medium of claim 1, wherein the data area stores a plurality of clip files of the multiple playback path video data, and the video data for each playback path is stored in a different clip file.

10-15. (Canceled)

16. (Currently Amended) A method of reproducing multiple playback path video data from a recording medium, comprising:
receiving user input selecting one of playback paths;
reproducing at least one playlist file associated with the selected playback path

based on navigation information recorded on the recording medium, the playlist file including information indicating order of reproduction;

reproducing at least one clip file of the multiple playback path video data from the recording medium; and

reproducing management information for managing reproduction of the multiple playback path video data from a management area of the recording medium, the management information including an information file associated with each clip file, each information file providing a map for the associated clip file, the map containing presentation time information corresponding to address information for the associated clip file, ~~wherein while a playback path of a multiple playback path is being reproduced, another playback path of the multiple playback path is not reproduced.~~

17. (Previously Presented) The method of claim 16, wherein the reproducing step reproduces a group of playlist files based on the navigation information.

18. (Currently Amended) A method of recording a data structure for managing reproduction of at least video data on a recording medium, comprising:

recording a playlist directory including a plurality of playlist files in a playlist directory area of the recording medium, each playlist file for identifying a portion of [[the]] multiple playback path video data and at least a portion of the playlist files associated with different playback paths, and including navigation information in the playlist file, the navigation information at least providing information on one playback path, the playlist file including information indicating order of reproduction;

recording at least one clip file of the at least video data in a data area of the recording medium; and

recording management information for managing reproduction of the at least video data in a management area of the recording medium, the management information including an information file associated with each clip file, each information file providing a map for the associated clip file, the map containing presentation time information corresponding to address information for the associated clip file, ~~wherein while a playback path of a multiple playback path is being reproduced, another playback path of the multiple playback path is not reproduced.~~

19. (Currently Amended) A method of reproducing a data structure for managing reproduction of at least video data, comprising:

reproducing navigation information from at least one playlist directory area of the recording medium, the navigation information at least providing information on one playback path; and

reproducing at least one playlist file in the playlist directory area of the recording medium based on the navigation information, each playlist file for identifying a portion of multiple playback path video data and at least a portion of the playlist files associated with different playback paths and for reproducing at least one clip file of the at least video data from the recording medium, the playlist file including information indicating order of reproduction; and

reproducing management information for managing reproduction of the at least video data from a management area of the recording medium, the management information including an information file associated with each clip file, each information file providing a map for the associated clip file, the map containing presentation time information corresponding to address information for the associated clip file, ~~wherein while a playback path of a multiple playback path is being reproduced, another playback~~

~~path of the multiple playback path is not reproduced.~~

20. (Currently Amended) An apparatus for recording a data structure for managing reproduction of at least video data, comprising:

an optical recording unit configured to record data on a recording medium;
an encoder configured to encode at least video data; and
a controller, operably coupled to the optical recording unit, configured to control the optical recording unit to record at least one clip file of the encoded video data in a data area on the recording medium, the controller configured to control the optical recording device to record a playlist directory including a plurality of playlist files and navigation information in a playlist directory area of the recording medium, each playlist file for identifying a portion of multiple playback path video data and at least a portion of the playlist files associated with different playback paths, the navigation information at least providing information on one playback path, the controller configured to control the optical recording unit to record management information for managing reproduction of the encoded video data in a management area of the recording medium, the management information including an information file associated with each clip file, each information file providing a map for the associated clip file, the map containing presentation time information corresponding to address information for the associated clip file,

the playlist file including information indicating order of production ~~wherein while a playback path of a multiple playback path is being reproduced, another playback path of the multiple playback path is not reproduced.~~

21. (Currently Amended) An apparatus for reproducing a data structure for managing

reproduction of at least video data, comprising:

an optical reproducing unit configured to reproduce data recorded on a recording medium; and

a controller, operably coupled to the optical reproducing unit, configured to control the optical reproducing unit to reproduce navigation information from at least one playlist file of the recording medium and control the optical reproducing unit to reproduce at least one playlist file in a playlist directory area of the recording medium based on the navigation information, the navigation information at least providing information on one playback path, each playlist file for identifying a portion of multiple playback path video data and at least a portion of the playlist files associated with different playback paths, the playlist file including information indicating order of reproduction;

the controller configured to control the optical reproducing unit to reproduce at least one clip file of the at least video data from a data area of the recording medium;

the controller configured to control the optical reproducing unit to reproduce management information for managing reproduction of the at least video data from a management area of the recording medium, the management information including an information file associated with each clip file, each information file providing a map for the associated clip file, the map containing presentation time information corresponding to address information for the associated clip file, ~~wherein while a playback path of a multiple playback path is being reproduced, another playback path of the multiple playback path is not reproduced.~~

22. (Previously Presented) The computer readable medium of claim 1, wherein the multiple playback path video data are represented by packets; and

the map maps presentation time stamps to packet addresses.

23. (Previously Presented) The apparatus of claim 20, wherein a group of playlist files is associated with each playback path.

24. (Previously Presented) The apparatus of claim 23, wherein the navigation information at least provides information for linking one playlist file to another playlist file in the same playback path.

25. (Previously Presented) The apparatus of claim 21, wherein a group of playlist files is associated with each playback path.

26. (Previously Presented) The apparatus of claim 25, wherein the navigation information at least provides information for linking one playlist file to another playlist file in the same playback path.

27-28. (Cancelled)

29. (Previously Presented) The method of claim 16, wherein the navigation information at least provides information for linking one playlist file to another playlist file in the same playback path.

30. (Previously Presented) The method of claim 18, wherein the recording the playlist directory includes recording a group of playlist files based on the navigation information.

31. (Cancelled)

32. (Previously Presented) The method of claim 18, wherein the recording the playlist directory includes recording the navigation information to at least provide information for linking one playlist file to another playlist file in the same playback path.

33. (Previously Presented) The method of claim 19, wherein the reproducing the at least one playlist file includes reproducing a group of playlist files based on the navigation information.

34. (Cancelled)

35. (Previously Presented) The method of claim 19, wherein the navigation information at least provides information for linking one playlist file to another playlist file in the same playback path.

36. (Cancelled)

37. (Previously Presented) The computer readable medium of claim 1, wherein the at least one clip file is linked to more than one of the plurality of playlist files.

38. (New) The computer readable medium of claim 1, wherein the navigation information at least provides information linking one playitem to another playitem in the same playback path.

39. (New) The method of claim 16, wherein the navigation information at least provides information linking one playitem to another play item in the same playback path.

40. (New) The method of claim 18, wherein the navigation information at least provides information linking one playitem to another playitem in the same playback path.

41. (New) The method of claim 19, wherein the navigation information at least provides information linking one playitem to another playitem in the same playback list.

42. (New) The apparatus of claim 20, wherein the navigation information at least provides information linking one playitem to another playitem in the same playback path.

43. (New) The apparatus of claim 21, wherein the navigation information at least provides information linking one playitem to another playitem in the same playback path.

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